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AGENCE INTERNATIONALE DE L'ÉNERGIE
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OCDE
ORGANISATION DE COOPÉRATION ET
DE DÉVELOPPEMENT ÉCONOMIQUES

Paris, 12th October 1989

IEA Implementing Agreement
For a Programme of Energy Technology Systems Analysis

R. F. Scott
IEA Legal Counsel

(CONFCOPY.LTR)

INTERNATIONAL ENERGY AGENCY

**IMPLEMENTING AGREEMENT
FOR A PROGRAMME OF ENERGY
TECHNOLOGY SYSTEMS ANALYSIS**

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TABLE OF CONTENTS

PREAMBLE	5
<i>Article 1</i>	
OBJECTIVES	6
<i>Article 2</i>	
IDENTIFICATION AND INITIATION OF TASKS	6
<i>Article 3</i>	
THE EXECUTIVE COMMITTEE	7
<i>Article 4</i>	
THE OPERATING AGENTS	9
<i>Article 5</i>	
ADMINISTRATION AND STAFF	10
<i>Article 6</i>	
FINANCE	10

<i>Article 7</i>	
INFORMATION AND INTELLECTUAL PROPERTY	13
<i>Article 8</i>	
LEGAL RESPONSIBILITY AND INSURANCE	13
<i>Article 9</i>	
LEGISLATIVE PROVISIONS	14
<i>Article 10</i>	
ADMISSION AND WITHDRAWAL OF CONTRACTING PARTIES	15
<i>Article 11</i>	
FINAL PROVISIONS	16
<i>Annex I</i>	
ENERGY TECHNOLOGY SYSTEMS ANALYSIS PROJECT	20
<i>Annex II</i>	
INFORMATION EXCHANGE PROJECT	26
<i>Annex III</i>	
INTERNATIONAL FORUM ON ENERGY ENVIRONMENT STUDIES	31

INTERNATIONAL ENERGY AGENCY

**IMPLEMENTING AGREEMENT
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TECHNOLOGY SYSTEMS ANALYSIS**

The Contracting Parties

CONSIDERING that the Contracting Parties, being either governments of International Energy Agency ("Agency") countries, governments of other countries invited by the Governing Board of the Agency to be Contracting Parties, international organizations or parties designated by their respective governments, wish to take part in the establishment and operation of a Programme of Energy Technology Systems Analysis ("the Programme") as provided in this Agreement;

CONSIDERING that the Contracting Parties which are governments of Agency countries and the governments of Agency countries which have designated Contracting Parties (referred to collectively as the "Governments") have agreed in Article 41 of the Agreement on an International Energy Program (the "I.E.P. Agreement") to undertake national programmes in the areas set out in Article 42 of the I.E.P. Agreement, including energy research and development on overall energy systems analysis and general studies in which field the Programme will be carried out;

CONSIDERING that in the Governing Board of the Agency on 21st October, 1980 the Governments approved the Programme as a special activity under Article 65 of the I.E.P. Agreement;

CONSIDERING that the Agency has recognized the establishment of the Programme as an important component of international co-operation in the field of energy research and development;

HAVE AGREED as follows:

Article 1

OBJECTIVES

- (a) *Scope of Activity.* The Programme to be carried out by the Contracting Parties within the framework of this Agreement shall consist of co-operative energy technology systems analysis.
- (b) *Method of Implementation.* The Contracting Parties shall implement the Programme by undertaking one or more tasks (the "Task" or "Tasks") each of which will be open to participation by two or more Contracting Parties as provided in Article 2 hereof. The Contracting Parties which participate in a particular Task are, for the purposes of that Task, referred to in this Agreement as "Participants".
- (c) *Task Co-ordination and Co-operation.* The Contracting Parties shall co-operate in co-ordinating the work of the various Tasks and shall endeavour, on the basis of an appropriate sharing of burdens and benefits, to encourage co-operation among Participants engaged in the various Tasks with the objective of advancing the activities of all Contracting Parties in the field of energy technology systems analysis.

Article 2

IDENTIFICATION AND INITIATION OF TASKS

- (a) *Identification.* The Tasks undertaken by Participants are identified in the Annexes to this Agreement. At the time of signing this Agreement, each Contracting Party shall confirm its intention to participate in one or more Tasks by giving the Executive Director of the Agency a Notice of Participation in the relevant Annex or Annexes, and the Operating Agent for each Task shall give the Executive Director of the Agency a Notice of Acceptance of the Task Annex. Thereafter, each Task shall be carried out in accordance with the procedures set forth in Articles 2 to 11 hereof, unless otherwise specifically provided in the applicable Annex.
- (b) *Initiation of Additional Tasks.* Additional Tasks may be initiated by any Contracting Party according to the following procedures:
- (1) A Contracting Party wishing to initiate a new Task shall present to one or more Contracting Parties for approval a draft Annex, similar in form to the Annexes attached hereto, containing a description of the scope of work and conditions of the Task proposed to be performed;
 - (2) Whenever two or more Contracting Parties agree to undertake a new Task, they shall submit the draft Annex for approval by the Executive Committee pursuant to Article 3 (e) (2) hereof; the approved draft Annex shall become part of this Agreement; Notice of Participation in the Task by Contracting Parties and acceptance by the Operating Agent shall be communicated to the Executive Director in the manner provided in paragraph (a) above;

- (3) In carrying out the various Tasks, Participants shall co-ordinate their activities in order to avoid duplication of activities.

(c) *Application of Task Annexes.* Each Annex shall be binding only upon the Participants therein and upon the Operating Agent for that Task, and shall not affect the rights or obligations of other Contracting Parties.

Article 3

THE EXECUTIVE COMMITTEE

(a) *Supervisory Control.* Control of the Programme shall be vested in the Executive Committee constituted under this Article.

(b) *Membership.* The Executive Committee shall consist of one member designated by each Contracting Party; each Contracting Party shall also designate an alternate member to serve on the Executive Committee in the event that its designated member is unable to do so.

(c) *Responsibilities.* The Executive Committee shall:

- (1) Adopt for each year, acting by unanimity, the Programme of Work and Budget, if foreseen, for each Task, together with an indicative programme of work and budget for the following year; the Executive Committee may, as required, make adjustments within the framework of the Programme of Work and Budget;
- (2) Make such rules and regulations as may be required for the sound management of the Tasks, including financial rules as provided in Article 6 hereof;
- (3) Carry out the other functions conferred upon it by this Agreement and the Annexes hereto; and
- (4) Consider any matters submitted to it by any of the Operating Agents or by any Contracting Party.

(d) *Procedure.* The Executive Committee shall carry out its responsibilities in accordance with the following procedures:

- (1) The Executive Committee shall each year elect a Chairman and one or more Vice-Chairmen;
- (2) The Executive Committee may establish such subsidiary bodies and rules of procedure as are required for its proper functioning. A representative of the Agency and a representative of each Operating Agent (in its capacity as such) may attend meetings of the Executive Committee and its subsidiary bodies in an advisory capacity;

- (3) The Executive Committee shall meet in regular session at least twice each year; a special meeting shall be convened upon the request of any Contracting Party which can demonstrate the need therefor;
- (4) Meetings of the Executive Committee shall be held at such time and in such office or offices as may be designated by the Executive Committee;
- (5) At least twenty-eight days before each meeting of the Executive Committee, notice of the time, place and purpose of the meeting shall be given to each Contracting Party and to other persons or entities entitled to attend the meeting; notice need not be given to any person or entity otherwise entitled thereto if notice is waived before or after the meeting;
- (6) The quorum for the transaction of business in meetings of the Executive Committee shall be one-half of the members plus one (less any resulting fraction) provided that any action relating to a particular Task shall require a quorum as aforesaid of members or alternate members designated by the Participants in that Task.

(e)

Voting.

- (1) When the Executive Committee adopts a decision or recommendation for or concerning a particular Task, the Executive Committee shall act:
 - (i) When unanimity is required under this Agreement: by agreement of those members or alternate members which were designated by the Participants in that Task and which are present and voting;
 - (ii) When no express voting provision is made in this Agreement: by majority vote of those members or alternate members which were designated by the Participants in that Task and which are present and voting.
- (2) In all other cases in which this Agreement expressly requires the Executive Committee to act by unanimity, this shall require the agreement of each member or alternate member present and voting, and in respect of all other decisions and recommendations for which no express voting provision is made in this Agreement, the Executive Committee shall act by a majority vote of the members or alternate members present and voting. If a government has designated more than one Contracting Party to this Agreement, those Contracting Parties may cast only one vote under this paragraph.
- (3) The decisions and recommendations referred to in sub-paragraphs (1) and (2) above may, with the agreement of each member or alternate member entitled to act thereon, be made by mail, telex or cable without the necessity for calling a meeting. Such action shall be taken by unanimity or majority of such members as in a meeting. The Chairman of the Executive Committee shall ensure that all members are informed of each decision or recommendation made pursuant to this sub-paragraph.

(f) *Reports.* The Executive Committee shall, at least semi-annually, provide the Agency and the Committee on Energy Research and Development with periodic reports on the progress of the Programme.

Article 4

THE OPERATING AGENTS

(a) *Designation.* Participants shall designate in the relevant Annex an Operating Agent for each Task. References in this Agreement to the Operating Agent shall apply to each Operating Agent in respect to the Task for which it is responsible.

(b) *Scope of Authority to Act on Behalf of Participants.* Subject to the provisions of the applicable Annex:

- (1) All legal acts required to carry out each Task shall be performed on behalf of the Participants by the Operating Agent for the Task;
- (2) The Operating Agent shall hold, for the benefit of the Participants, the legal title to all property rights which may accrue to or be acquired for the Task;

The Operating Agent shall operate the Task under its supervision and responsibility, subject to this Agreement, in accordance with the law of the country of the Operating Agent.

(c) *Reimbursement of Costs.* The Executive Committee may provide that expenses and costs incurred by an Operating Agent in acting as such pursuant to this Agreement shall be reimbursed to the Operating Agent from funds made available by the Participants pursuant to Article 6 hereof.

(d) *Replacement.* Should the Executive Committee wish to replace an Operating Agent with another government or entity, the Executive Committee may, acting by unanimity and with the consent of such government or entity, replace the initial Operating Agent. References in this Agreement to the "Operating Agent" shall include any government or entity appointed to replace the original Operating Agent under this paragraph.

(e) *Resignation.* An Operating Agent shall have the right to resign at any time, by giving six months written notice to that effect to the Executive Committee, provided that:

- (1) A Participant, or entity designated by a Participant, is at such time willing to assume the duties and obligations of the Operating Agent and so notifies the Executive Committee and the other Participants to that effect, in writing, not less than three months in advance of the effective date of such resignation; and
- (2) Such Participant or entity is approved by the Executive Committee, acting by unanimity.

(f) *Accounting.* An Operating Agent which is replaced or which resigns as Operating Agent shall provide the Executive Committee with an accounting of any monies and other assets which it may have collected or acquired for the Task in the course of carrying out its responsibilities as Operating Agent.

(g) *Transfer of Rights.* In the event that another Operating Agent is appointed under paragraph (d) or (e) above, the Operating Agent shall transfer to such replacement Operating Agent any property rights which it may hold on behalf of the Task.

(h) *Information and Reports.* Each Operating Agent shall furnish to the Executive Committee such information concerning the Task as the Committee may request and shall each year submit, not later than two months after the end of the financial year, a report on the status of the Task.

Article 5

ADMINISTRATION AND STAFF

(a) *Administration of Tasks.* Each Operating Agent shall be responsible to the Executive Committee for implementing its designated Task in accordance with this Agreement, the applicable Task Annex, and the decisions of the Executive Committee.

(b) *Staff.* It shall be the responsibility of the Operating Agent to retain such staff as may be required to carry out its designated Task in accordance with rules determined by the Executive Committee. The Operating Agent may also, as required, utilize the services of personnel employed by other Participants (or organizations or other entities designated by Contracting Parties) and made available to the Operating Agent by secondment or otherwise. Such personnel shall be remunerated by their respective employers and shall, except as provided in this Article, be subject to their employers' conditions of service. The Contracting Parties shall be entitled to claim the appropriate cost of such remuneration or to receive an appropriate credit for such cost as part of the Budget of the Task, in accordance with Article 6(f)(6) hereof.

Article 6

FINANCE

(a) *Individual Obligations.* Each Contracting Party shall bear the costs it incurs in carrying out this Agreement, including the costs of formulating or transmitting reports and of reimbursing its employees for travel and other per diem expenses incurred in connection with work carried out on the respective Tasks, unless provision is made for such costs to be reimbursed from common funds as provided in paragraph (g) below.

(b) *Common Financial Obligations.* Participants wishing to share the costs of a particular Task shall agree in the appropriate Task Annex to do so. The apportionment of

contributions to such costs (whether in the form of cash, services rendered, intellectual property or the supply of materials) and the use of such contributions shall be governed by the regulations and decisions made pursuant to this Article by the Executive Committee.

(c) *Financial Rules, Expenditure.* The Executive Committee, acting by unanimity, may make such regulations as are required for the sound financial management of each Task including, where necessary:

- (1) Establishment of budgetary and procurement procedures to be used by the Operating Agent in making payments from any common funds which may be maintained by Participants for the account of the Task or in making contracts on behalf of the Participants;
- (2) Establishment of minimum levels of expenditure for which Executive Committee approval shall be required, including expenditure involving payment of monies to the Operating Agent for other than routine salary and administrative expenses previously approved by the Executive Committee in the budget process.

In the expenditure of common funds, the Operating Agent shall take into account the necessity of ensuring a fair distribution of such expenditure in the Participants' countries, where this is fully compatible with the most efficient technical and financial management of the Task.

(d) *Crediting of Income to Budget.* Any income which accrues from a Task shall be credited to the Budget of that Task.

(e) *Accounting.* The system of accounts employed by the Operating Agent shall be in accordance with accounting principles generally accepted in the country of the Operating Agent and consistently applied.

(f) *Programme of Work and Budget, Keeping of Accounts.* Should Participants agree to maintain common funds for the payment of obligations under a programme of work and budget of the Task, the following provisions shall be applicable unless the Executive Committee, acting by unanimity, decides otherwise:

- (1) The financial year of the Task shall correspond to the financial year of the Operating Agent;
- (2) The Operating Agent shall each year prepare and submit to the Executive Committee for approval a draft programme of work and budget, together with an indicative programme of work and budget for the following year, not later than three months before the beginning of each financial year;
- (3) The Operating Agent shall maintain complete, separate financial records which shall clearly account for all funds and property coming into the custody or possession of the Operating Agent in connection with the Task;
- (4) Not later than three months after the close of each financial year, the Operating Agent shall submit to auditors selected by the Executive

Committee for audit the annual accounts maintained for the Task; upon completion of the annual audit, the Operating Agent shall present the accounts together with the auditors' report to the Executive Committee for approval;

- (5) All books of account and records maintained by the Operating Agent shall be preserved for at least three years from the date of termination of the Task;
- (6) Where provided in the relevant Annex, a Participant supplying services, materials or intellectual property to the Task shall be entitled to a credit, determined by the Executive Committee, acting by unanimity, against its contribution (or to compensation, if the value of such services, materials or intellectual property exceeds the amount of the Participant's contribution); such credits for services of staff shall be calculated on an agreed scale approved by the Executive Committee and include all payroll-related costs.

(g) *Contribution to Common Funds.* Should Participants agree to establish common funds under the annual Programme of Work and Budget for a Task, any financial contributions due from Participants in a Task shall be paid to the Operating Agent in the currency of the country of the Operating Agent at such times and upon such other conditions as the Executive Committee, acting by unanimity, shall determine, provided, however, that:

- (1) Contributions received by the Operating Agent shall be used solely in accordance with the Programme of Work and Budget for the Task;
- (2) The Operating Agent shall be under no obligation to carry out any work on the Task until contributions amounting to at least fifty per cent (in cash terms) of the total due at any one time have been received.

(h) *Ancillary Services.* Ancillary services may, as agreed between the Executive Committee and the Operating Agent, be provided by that Operating Agent for the operation of a Task and the cost of such services, including overheads connected therewith, may be met from budgeted funds of that Task.

(i) *Taxes.* The Operating Agent shall pay all taxes and similar impositions (other than taxes on income) imposed by national or local governments and incurred by it in connection with a Task, as expenditure incurred in the operation of that Task under the Budget; the Operating Agent shall, however, endeavour to obtain all possible exemptions from such taxes.

(j) *Audit.* Each Participant shall have the right, at its sole cost, to audit the accounts of any work in a Task for which common funds are maintained, on the following terms:

- (1) The Operating Agent shall provide the other Participants with an opportunity to participate in such audits on a cost-shared basis;

- (2) Accounts and records relating to activities of the Operating Agent other than those conducted for the Task shall be excluded from such audit, but if the Participant concerned requires verification of charges to the Budget representing services rendered to the Task by the Operating Agent, it may, at its own cost, request and obtain an audit certificate in this respect from the auditors of the Operating Agent;
- (3) Not more than one such audit shall be required in any financial year;
- (4) Any such audit shall be carried out by not more than three representatives of the Participants.

Article 7

INFORMATION AND INTELLECTUAL PROPERTY

It is expected that for each Task agreed to pursuant to this Agreement, the applicable Annex will contain information and intellectual property provisions. The General Guidelines Concerning Information and Intellectual Property, approved by the Governing Board of the Agency on 21st November, 1975, shall be taken into account in developing such provisions.

Article 8

LEGAL RESPONSIBILITY AND INSURANCE

(a) *Liability of Operating Agent.* The Operating Agent shall use all reasonable skill and care in carrying out its duties under this Agreement in accordance with all applicable laws and regulations. Except as otherwise provided in this Article, the cost of all damage to property, and all expenses associated with claims, actions, and other costs arising from work undertaken with common funds for a Task shall be charged to the Budget of that Task; such costs and expenses arising from other work undertaken for a Task shall be charged to the Budget of that Task as the Task Annex so provides or the Executive Committee, acting by unanimity, so decides.

(b) *Insurance.* The Operating Agent shall propose to the Executive Committee all necessary liability, fire and other insurance, and shall carry such insurance as the Executive Committee may direct. The cost of obtaining and maintaining insurance shall be charged to the Budget of the Task.

(c) *Indemnification of Contracting Parties.* The Operating Agent shall be liable, in its capacity as such, to indemnify Participants against the cost of any damage to property and all

legal liabilities, actions, claims, costs and expenses connected therewith to the extent that they:

- (1) Result from the failure of the Operating Agent to maintain such insurance as it may be required to maintain under paragraph (b) above; or
- (2) Result from the gross negligence or wilful misconduct of any officers or employees of the Operating Agent in carrying out their duties under this Agreement.

Article 9

LEGISLATIVE PROVISIONS

(a) *Accomplishment of Formalities.* Each Participant shall request the appropriate authorities of its country (or its Member States in the case of an international organization) to use their best endeavours, within the framework of applicable legislation, to facilitate the accomplishment of formalities involved in the movement of persons, the importation of materials and equipment and the transfer of currency which shall be required to conduct the Task in which it is engaged.

(b) *Applicable Laws.* In carrying out this Agreement and its Annexes, the Contracting Parties shall be subject to the appropriation of funds by the appropriate governmental authority, where necessary, and to the constitution, laws and regulations applicable to the respective Contracting Parties, including, but not limited to, laws establishing prohibitions upon the payment of commissions, percentages, brokerage or contingent fees to persons retained to solicit governmental contracts and upon any share of such contracts accruing to governmental officials.

(c) *Decisions of Agency Governing Board.* Participants in the various Tasks shall take account, as appropriate, of the Guiding Principles for Co-operation in the Field of Energy Research and Development, and any modification thereof, as well as other decisions of the Governing Board of the Agency in that field. The termination of the Guiding Principles shall not affect this Agreement, which shall remain in force in accordance with the terms hereof.

(d) *Settlement of Disputes.* Any dispute among the Contracting Parties concerning the interpretation or the application of this Agreement which is not settled by negotiation or other agreed mode of settlement shall be referred to a tribunal of three arbitrators to be chosen by the Contracting Parties concerned who shall also choose the Chairman of the tribunal. Should the Contracting Parties concerned fail to agree upon the composition of the tribunal or the selection of its Chairman, the President of the International Court of Justice shall, at the request of any of the Contracting Parties concerned, exercise those responsibilities. The tribunal shall decide any such dispute by reference to the terms of this Agreement and any applicable laws and regulations, and its decision on a question of fact shall be final and binding on the Contracting Parties concerned. Operating Agents which are not Contracting Parties shall be regarded as Contracting Parties for the purpose of this paragraph.

Article 10

ADMISSION AND WITHDRAWAL OF CONTRACTING PARTIES

(a) *Admission of New Contracting Parties: Agency Countries.* Upon the invitation of the Executive Committee, acting by unanimity, admission to this Agreement shall be open to the government of any Agency Participating Country (or a national agency, public organization, private corporation, company or other entity designated by such government), which signs or accedes to this Agreement, accepts the rights and obligations of a Contracting Party, and is accepted for participation in at least one Task by the Participants in that Task, acting by unanimity. Such admission of a Contracting Party shall become effective upon the signature of this Agreement by the new Contracting Party or its accession thereto and its giving Notice of Participation in one or more Annexes and the adoption of any consequential amendments thereto.

(b) *Admission of New Contracting Parties: Other OECD Countries.* The government of any Member of the Organisation for Economic Co-operation and Development which does not participate in the Agency may, on the proposal of the Executive Committee, acting by unanimity, be invited by the Governing Board of the Agency to become a Contracting Party to this Agreement (or to designate a national agency, public organization, private corporation, company or other entity to do so), under the conditions stated in paragraph (a) above.

(c) *Admission of New Participants in Tasks.* Any Contracting Party may, with the agreement of the Participants in a Task, acting by unanimity, become a Participant in that Task. Such participation shall become effective upon the Contracting Party's giving the Executive Director of the Agency a Notice of Participation in the appropriate Task Annex and the adoption of consequential amendments thereto.

(d) *Contributions.* The Executive Committee may require, as a condition to admission to participation, that the new Contracting Party or new Participant shall contribute (in the form of cash, services or materials) an appropriate proportion of the prior budget expenditure of any Task in which it participates.

(e) *Replacement of Contracting Parties.* With the agreement of the Executive Committee, acting by unanimity, and upon the request of a government, a Contracting Party designated by that government may be replaced by another party. In the event of such replacement, the replacement party shall assume the rights and obligations of a Contracting Party as provided in paragraph (a) above and in accordance with the procedure provided therein.

(f) *Withdrawal.* Any Contracting Party may withdraw from this Agreement or from any Task either with the agreement of the Executive Committee, acting by unanimity, or by giving twelve months written Notice of Withdrawal to the Executive Director of the Agency, such Notice to be given not less than one year after the date hereof. The withdrawal of a Contracting Party under this paragraph shall not affect the rights and obligations of the other Contracting Parties; except that, where the other Contracting Parties have contributed to common funds for a Task, their proportionate shares in the Task Budget shall be adjusted to take account of such withdrawal.

(g) *Changes of Status of Contracting Party.* A Contracting Party other than a government or an international organization shall forthwith notify the Executive Committee of any significant change in its status or ownership, or of its becoming bankrupt or entering into liquidation. The Executive Committee shall determine whether any such change in status of a Contracting Party significantly affects the interests of the other Contracting Parties; if the Executive Committee so determines, then, unless the Executive Committee, acting upon the unanimous decision of the other Contracting Parties, otherwise agrees:

- (1) That Contracting Party shall be deemed to have withdrawn from the Agreement under paragraph (f) above on a date to be fixed by the Executive Committee; and
- (2) The Executive Committee shall invite the government which designated that Contracting Party to designate, within a period of three months of the withdrawal of that Contracting Party, a different entity to become a Contracting Party; if approved by the Executive Committee, acting by unanimity, such entity shall become a Contracting Party with effect from the date on which it signs or accedes to this Agreement and gives the Executive Director of the Agency a Notice of Participation in one or more Annexes.

(h) *Failure to Fulfil Contractual Obligations.* Any Contracting Party which fails to fulfil its obligations under this Agreement within sixty days after its receipt of notice specifying the nature of such failure and invoking this paragraph may be deemed by the Executive Committee, acting by unanimity, to have withdrawn from this Agreement.

Article 11

FINAL PROVISIONS

(a) *Term of Agreement.* This Agreement shall remain in force for an initial period of two years from the date hereof, and shall continue in force thereafter unless and until the Executive Committee, acting by unanimity, decides on its termination.

(b) *Legal Relationship of Contracting Parties and Participants.* Nothing in this Agreement shall be regarded as constituting a partnership between any of the Contracting Parties or Participants.

(c) *Termination.* Upon termination of this Agreement, or any Annex to this Agreement, the Executive Committee, acting by unanimity, shall arrange for the liquidation of the assets of the Task or Tasks. In the event of such liquidation, the Executive Committee shall, so far as practicable, distribute the assets of the Task, or the proceeds therefrom, in proportion to the contributions which the Participants have made from the beginning of the operation of the Task, and for that purpose shall take into account the contributions and any outstanding obligations of former Contracting Parties. Disputes with a former Contracting Party about the proportion allocated to it under this paragraph shall be settled under Article 9 (d) hereof, for which purpose a former Contracting Party shall be regarded as a Contracting Party.

(d) *Amendment.* This Agreement may be amended at any time by the Executive Committee, acting by unanimity, and any Annex to this Agreement may be amended at any time by the Executive Committee, acting by unanimity of the Participants in the Task to which the Annex refers. Such amendments shall come into force in a manner determined by the Executive Committee, acting under the voting rule applicable to the decision to adopt the amendment.

(e) *Deposit.* The original of this Agreement shall be deposited with the Executive Director of the Agency and a certified copy thereof shall be furnished to each Contracting Party. A copy of this Agreement shall be furnished to each Agency Participating Country and to each Member country of the Organisation for Economic Co-operation and Development.

Done in Paris, this 13th day of November, 1980.

For the DEPARTMENT OF NATIONAL DEVELOPMENT AND ENERGY for and on behalf of the Government of Australia:	J. Humphreys
For the ENERGIEVERWERTUNGSAGENTUR (designated by the Republic of Austria):	Peter Weiser
For the GOVERNMENT OF BELGIUM:	J. Robinet
For the DEPARTMENT OF ENERGY, MINES AND RESOURCES (CANADA*):	Randolph Gherson
For the MINISTRY OF ENERGY for and on behalf of the Government of Denmark:	H. Tabor
For the COMMISSION OF THE EUROPEAN COMMUNITIES:	Jean-Pierre Leng
For the KERNFORSCHUNGSANLAGE JÜLICH GmbH (designated by the Government of Germany):	ppa Hertling i.V. Nieraad
For the SCIENTIFIC RESEARCH AND TECHNOLOGY SERVICE OF THE MINISTRY OF COORDINATION for and on behalf of the Government of the Hellenic Republic:	Dim. S. Athanassopoulos
For the NATIONAL BOARD FOR SCIENCE AND TECHNOLOGY for and on behalf of the Irish Government:	Hugh Finlay
For the ENTE NAZIONALE IDROCARBURI (designated by the Government of Italy):	Giancarlo Lestini
For the STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND (designated by the Government of the Netherlands):	J.A. Over
For the ROYAL MINISTRY OF PETROLEUM AND ENERGY for and on behalf of the Government of Norway:	Jens Boyesen

* The Department of Energy, Mines and Ressources represents the Government of Canada as Contracting Party. In Annex III, the Government of Canada Participant is Environment Canada.

For the CENTRO DE ESTUDIOS DE LA ENERGÍA
(designated by the Government of Spain):

Tomas Chavarri

For the ENERGY RESEARCH AND DEVELOPMENT
COMMISSION
(designated by the Government of Sweden**):

Hans Colliander

For the OFFICE FÉDÉRAL DE L'ENERGIE
for and on behalf of the Government
of Switzerland:

A. Grübel

For the SECRETARY OF STATE FOR ENERGY
for and on behalf of the Government
of the United Kingdom of Great Britain
and Northern Ireland:

A.F. Maddocks

For the DEPARTMENT OF ENERGY
for and on behalf of the Government
of the United States of America:

Robert G. Morris

** The ENERGY RESEARCH COMMISSION has succeeded to the Energy Research and Development Commission as the Swedish Contracting Party.

The GOVERNMENT OF JAPAN acceded to this Agreement with effect from 17th September, 1981.

Annex I

ENERGY TECHNOLOGY SYSTEMS ANALYSIS PROJECT

1. *Background and Objectives*

- (a) *Background.* As a result of the decision by the IEA Governing Board in November, 1975 to develop an IEA Strategy for Energy Research, Development and Demonstration, a co-operative energy systems analysis activity was begun in February, 1976 for the purpose of providing the analytical basis for the Strategy. This activity was carried out on a task-sharing basis and was managed by a Steering Group on Research and Development Systems Analysis under the Committee on Energy Research and Development. Sixteen Participating Countries and the Commission of the European Communities participated in this activity, which was terminated by decision of the Steering Group on 31st December, 1979. By that time the co-operative work had developed a computer model, known as MARKAL, and a set of analytical results that have been used to develop an Energy Research, Development and Demonstration Strategy for the IEA.
- (b) *Objectives.* The objectives of this Task are to provide for the continuation of a co-operative energy technology systems analysis activity in which the greater part of the analytical work will be carried out by Participants at the national level, with co-ordination and certain types of support being assured by a central support staff. The general objectives of the Task are to:
- (1) Increase the analytical capabilities of Participating Countries in the field of energy technology assessment;
 - (2) Maintain a multilateral capability within the IEA for energy technology systems analysis by making use of and improving the data base and modelling techniques developed during Phase II of the IEA Energy Research and Development Systems Analysis Project.

Subtask: Specific analytical objectives are as follows, with each objective to be pursued in a

- Subtask 1:* Analyze the potential for energy saving through the application of conservation technologies.
- Subtask 2:* Review and expand the technology characterizations developed for the IEA Energy Research, Development and Demonstration Strategy Project; perform sensitivity analyses, and study the competitiveness of selected technologies.
- Subtask 3:* Review key assumptions about world-traded fuels and examine the sensitivity of results to variations in these assumptions.

Subtask 4: Review the demand projections, the underlying assumptions for economic growth and other important items, and analyze the robustness of different scenarios.

Subtask 5: Investigate certain environmental questions including the requirements for labour, land, water and some structural materials, and specify the inventories of selected pollutants.

2. *Means*

The objectives shall be achieved by:

- (i) The establishment of an IEA Energy Technology Systems Analysis Support Centre comprising a Project Staff with computing facilities;
- (ii) The transfer of the MARKAL model to computing facilities in Participants' Countries;
- (iii) The carrying out of the five Subtasks and such other co-operative analytical tasks as may be agreed in the annual Programme of Work; and
- (iv) Temporary visits of officials from Participants to the Support Centre at KFA Jülich.

3. *Specific Responsibilities of the Operating Agent*

- (a) *Project Staff.* For the purpose of carrying out the above objectives, the Operating Agent shall establish within ninety days of the signature of the Agreement a Project Staff composed of a Project Head, two scientific members and one clerical. The Project Staff resources shall at all times consist of at least the equivalent of four full-time positions, with the exact disposition of resources to be set by the Operating Agent.
- (b) *Co-ordination.* The Operating Agent shall be responsible for overall co-ordination of the Task.
- (c) *Computing Facilities.* The Operating Agent will maintain computing facilities adequate to carrying out the objectives of the Task.
- (d) *Access to Support Centre at KFA Jülich.* The Operating Agent shall accept visits by persons from each of the other Participants at KFA Jülich subject to prior notification and agreement between the Participants concerned and the Operating Agent on timing of the visit. In addition to making the necessary arrangements to facilitate access of Participants to KFA Jülich, the Operating Agent shall accept one person per Participant up to a maximum of three months each year and shall provide the necessary office space therefor, unless bilateral arrangements are made between the Participant concerned and the Operating Agent for officials to remain at KFA Jülich for extended periods to carry out computer analyses.

- (e) *MARKAL Availability.* The versions of the Matrix Generator developed at KFA Jülich during Phase II, Programme of Equations and Report Generating Systems, current at the time of signature of the Agreement, shall be made available by the Operating Agent in tape form to any IEA Country and to the Commission of the European Communities without fee but upon payment of a charge covering tape costs and shipment. The Optimization Routine and the Matrix Generator to be used in this Task are proprietary and are only available by arrangement with the commercial supplier.
- (f) *Preparation of Draft Programme of Work and Reports.* The Operating Agent will prepare and submit to the Executive Committee prior to its first meeting a draft programme of work for the two year period of the Task. The Operating Agent will prepare, and submit to the Executive Committee for approval, no less than semi-annually, a draft technical progress report. Following approval, the Operating Agent will transmit these reports to the Agency and to the members of the IEA Committee on Energy Research and Development.

The Committee on Energy Research and Development may, during this Task, propose additions to the Programme of Work. The Executive Committee shall, acting by unanimity, decide whether these proposals will be added to the Programme.

4. *Specific Responsibilities of the Other Participants*

Each Participant in this Task other than the Operating Agent is required to participate in at least one of the five Subtasks mentioned in paragraph 1 (b). In addition, the United States Contracting Party shall make available facilities and staff of the Brookhaven National Laboratory to assist the Operating Agent in the carrying out of the objectives of this Annex and in the co-ordination of the Subtasks. The Brookhaven National Laboratory will, in agreement with the Operating Agent, serve as a co-operating host laboratory in all the Subtasks.

5. *Funding*

- (a) *Common Financial Obligations.* Based upon a Project Staff as described in paragraph 3 above, the Operating Agent estimates the annual costs of the Support Centre in 1980 prices at DM. 400,000. These costs include computing costs sufficient to cover aggregation runs and test runs for model improvement. The costs of other runs carried out by the Operating Agent for the Task are to be shared by agreement with the Participant(s) concerned.

The costs of maintaining and operating the Support Centre will be divided equally among all Participants.

- (b) *Individual Financial Obligations.* Aside from the contributions described in sub-paragraph (a) above each Participant shall bear all the costs it incurs in carrying out this Task.

6. *Time Schedule*

The duration of this Task shall be two years. It may be extended by decision of the Executive Committee, acting by unanimity.

7. *Operating Agent*

The Kernforschungsanlage Jülich GmbH (KFA Jülich).

8. *Information and Intellectual Property*

- (a) *Executive Committee Powers.* The publication, distribution, handling, protection and ownership of information and intellectual property arising from this Annex shall be determined by the Executive Committee, acting by unanimity, in conformity with this Agreement.
- (b) *Right to Publish.* Subject only to copyright restrictions, the Participants in this Annex (referred to in this Annex as the "Participants") shall have the right to publish all information provided to or arising from this Annex except proprietary information, but they shall not publish it with a view to profit, except as agreed by the Executive Committee, acting by unanimity.
- (c) *Proprietary Information.* The Operating Agent and the Participants shall take all necessary measures in accordance with this Annex, the laws of their respective countries, and international law to protect proprietary information. For the purposes of this Annex, proprietary information shall mean information of a confidential nature, such as trade secrets and know-how (for example, computer programmes, design procedures and techniques, chemical composition of materials, or manufacturing methods, processes, or treatments), that is appropriately marked, provided such information:
 - (1) Is not generally known or publicly available from other sources;
 - (2) Has not previously been made available by the owner to others without obligation concerning its confidentiality; and
 - (3) Is not already in the possession of the recipient Participant without obligation concerning its confidentiality.

It shall be the responsibility of each Participant supplying proprietary information to identify the information as such and to ensure that it is appropriately marked.

- (d) *Production of Relevant Information by Governments.* The Operating Agent should encourage the governments of all Agency Participating Countries to make available or to identify to the Operating Agent all published or otherwise freely available information known to them that is relevant to the Task. The Participants should notify the Operating Agent of all pre-existing information, and information developed independently of the Task known to them which is relevant to the Task and which can be made available to the Task without contractual or legal limitations.

- (e) *Production of Available Information by Participants.* Each Participant agrees to provide to the Operating Agent all previously existing information and information developed independently of the Annex, which is needed by the Operating Agent to carry out its functions in this Task and which is freely at the disposal of the Participant and the transmission of which is not subject to any contractual and/or legal limitations:
 - (1) If no substantial cost is incurred by the Participant in making such information available, at no charge to the Task;
 - (2) If substantial costs must be incurred by the Participant to make such information available, at such charges to the Task as shall be agreed between the Operating Agent and the Participant with the approval of the Executive Committee.
- (f) *Use of Confidential Information.* If a Participant has access to confidential information which would be useful to the Operating Agent in conducting studies, assessments, analyses, or evaluations, such information may be communicated to the Operating Agent but shall not become part of reports, handbooks, or other documentation, nor be communicated to the other Participants except as may be agreed between the Operating Agent and the Participant which supplies such information.
- (g) *Acquisition of Information for the Task.* Each Participant shall inform the Operating Agent of the existence of information known to the Participant that can be of value to the Task, but which is not freely available, and the Participant shall endeavour to make the information available to the Task under reasonable conditions, in which event the Executive Committee may, acting unanimously, decide to acquire such information.
- (h) *Reports on Work Performed under the Task.* The Operating Agent shall provide reports of all work performed under the Task and the results thereof, including studies, assessments, analyses, evaluations and other documentation, but excluding proprietary information, to the Participants.
- (i) *Copyright.* The Operating Agent may take appropriate measures necessary to protect copyrightable materials generated under this Task. Copyrights obtained shall be the property of the Operating Agent for the benefit of the Participants, provided, however, that Participants may reproduce and distribute such material, but shall not publish it with a view to profit, except as otherwise directed by the Executive Committee.
- (j) *Authors.* Each Participant shall, without prejudice to any rights of authors under its national laws, take necessary steps to provide the co-operation with its authors required to carry out the provisions of this paragraph. Each Participant will assume the responsibility to pay awards or compensation required to be paid to its employees according to the laws of its country.

9. Results

The results of this Task will be:

- (a) Maintenance and improvements of an international capability for the analysis of new energy technologies and their future prospects; and
- (b) Periodic reports on analytical studies undertaken in connection with the Task.

10. *Participants*

The Contracting Parties which are Participants in the Task are the following:

The Department of National Development and Energy (Australia),
The Energieverwertungsagentur (Austria),
The Government of Belgium,
The Department of Energy, Mines and Resources (Canada),
The Commission of the European Communities,
The Ministry of Energy (Denmark),
The Kernforschungsanlage Jülich GmbH (Germany),
The Scientific Research and Technology Service of the Ministry of Coordination (Greece),
The National Board for Science and Technology (Ireland),
The Ente Nazionale Idrocarburi (Italy),
The Government of Japan,
The Stichting Energieonderzoek Centrum Nederland (Netherlands),
The Royal Ministry of Petroleum and Energy (Norway),
The Centro de Estudios de la Energía (Spain),
The Energy Research and Development Commission (Sweden*),
The Office Fédéral de l'Energie (Switzerland),
The Secretary of State for Energy (United Kingdom),
The United States Department of Energy.

* See note p. 19.

Annex II

INFORMATION EXCHANGE PROJECT

1. *Objective*

The objective of this Task is for Participants to carry out a continuous exchange of information related to energy modelling, energy systems analysis and energy technology assessment in order to share experiences, stimulate co-operative studies and benefit from common analysis.

2. *Means*

The objectives shall be achieved by:

- (a) The exchange of work reports, memoranda and documents in the English language containing descriptions of methods, data inputs and results of energy systems studies;
- (b) Periodic workshops or seminar meetings (approximately 2 per year) for the project Participants and invited visitors dealing with national, regional and/or inter-regional aspects of:
 - (i) Energy supply and pricing;
 - (ii) Energy demand;
 - (iii) Energy modelling methods;
 - (iv) Energy technology characteristics;
 - (v) Energy systems characteristics;
- (c) The maintenance of the computer model MARKAL including the corresponding computer programmes and the consultative services of the support centre at KFA Jülich for MARKAL applications;
- (d) Preparation and distribution of a periodic newsletter (up to 3 per year) summarizing information resulting from the activities mentioned under paragraphs (a), (b) and (c) above;
- (e) Meetings held for the purpose of establishing new Tasks under the Implementing Agreement.

3. *Specific Responsibilities of the Operating Agent*

- (a) *Project Staff.* For the purpose of carrying out the above objective, the Operating Agent shall establish within ninety days after the Annex has entered into force a Project Staff composed of a full-time project head, a part-time secretary and a student.

- (b) *Co-ordination.* The Operating Agent shall be responsible for overall co-ordination of the Task.
- (c) *Access to Support Centre at KFA Jülich.* The Operating Agent shall accept visits by persons from each of the other Participants at KFA Jülich subject to prior notification and agreement between the Participants concerned and the Operating Agent on timing and duration of the visit.
- (d) *Additional Services of the Operating Agent.* Services of the Operating Agent concerning MARKAL development, application and training may be provided in a bilateral agreement between the Operating Agent and any interested Participant.
- (e) *MARKAL Availability.* The versions of the Matrix Generator developed at KFA Jülich and Brookhaven National Laboratory during the period of Annex I, Programme of Equations and Report Generating Systems, current at the time of this Annex entering into force, shall continue to be made available by the Operating Agent in tape form to any IEA country and to the Commission of the European Communities without fee but upon payment of a charge covering tape costs and shipment. The Optimization Routine and the Matrix Generator language to be used in this Task are proprietary and are only available by arrangement with the commercial supplier.
- (f) *Preparation of Draft Programme of Work and Reports.* The Operating Agent will prepare and submit to the Executive Committee prior to its first meeting a draft programme of work for the three year period of the Task. The Operating Agent will prepare, and submit to the Executive Committee for approval, at the termination of this Annex, a draft final report on the activities carried out during the period of this Annex. Following approval, the Operating Agent will transmit the report to the Agency and to the members of the IEA Committee on Energy Research and Development.

The Committee on Energy Research and Development may, during this Task, propose additions to the Programme of Work. The Executive Committee shall, acting by unanimity, decide whether these proposals will be added to the Programme.

4. *Funding*

- (a) *Common Financial Obligations.* Based upon a Project Staff as described in paragraph 3 above, the Operating Agent estimates the annual costs of the Support Centre at 1983 prices at DM 207,000. The actual costs of maintaining and operating the Support Centre will be divided equally among all Participants. If the number of the Participants changes, the shares of contribution to the costs will be adjusted proportionally. New Participants will pay the full share of the costs beginning with the project year in which they become Participants.
- (b) *Individual Financial Obligations.* Aside from the contributions described in sub-paragraph (a) above each Participant shall bear all the costs it incurs in carrying out this Task.

5. *Time Schedule*

This Annex will enter into force on 1st July, 1983 and will remain in force for a period of three years. It may be extended by agreement of two or more Participants acting in the Executive Committee and taking into account any recommendation of the Agency's Committee on Energy Research and Development concerning the term of this Annex which shall thereafter apply only to those Participants. The Operating Agent may resign, without giving notice, with effect from the commencement of any period of extension of the Task.

6. *Operating Agent*

The Kernforschungsanlage Jülich GmbH (Germany).

7. *Information and Intellectual Property*

- (a) *Executive Committee Powers.* The publication, distribution, handling, protection and ownership of information and intellectual property arising from this Annex shall be determined by the Executive Committee, acting by unanimity, in conformity with this Agreement.
- (b) *Right to Publish.* Subject only to copyright restrictions, the Participants in this Annex (referred to in this Annex as the "Participants") shall have the right to publish all information provided to or arising from this Annex except proprietary information, but they shall not publish it with a view to profit, except as agreed by the Executive Committee, acting by unanimity.
- (c) *Proprietary Information.* The Operating Agent and the Participants shall take all necessary measures in accordance with this Annex, the laws of their respective countries, and international law to protect proprietary information. For the purposes of this Annex proprietary information shall mean information of a confidential nature such as trade secrets and know-how (for example, computer programmes, design procedures and techniques, chemical composition of materials, or manufacturing methods, processes, or treatments) that is appropriately marked, provided such information:
 - (1) Is not generally known or publicly available from other sources;
 - (2) Has not previously been made available by the owner to others without obligation concerning its confidentiality; and
 - (3) Is not already in the possession of the recipient Participant without obligation concerning its confidentiality.

It shall be the responsibility of each Participant supplying proprietary information to identify the information as such and to ensure that it is appropriately marked.

- (d) *Production of Relevant Information by Governments.* The Operating Agent should encourage the governments of all Agency Participating Countries to make available or to identify to the Operating Agent all published or

otherwise freely available information known to them that is relevant to the Task. The Participants should notify the Operating Agent of all pre-existing information, and information developed independently of the Task known to them which is relevant to the Task and which can be made available to the Task without contractual or legal limitations.

- (e) *Production of Available Information by Participants.* Each Participant agrees to provide to the Operating Agent all previously existing information and information developed independently of the Annex, which is needed by the Operating Agent to carry out its function in this Task and which is freely at the disposal of the Participant and the transmission of which is not subject to any contractual and/or legal limitations:
 - (1) If no substantial cost is incurred by the Participant in making such information available, at no charge to the Task;
 - (2) If substantial costs must be incurred by the Participant to make such information available, at such charges to the Task as shall be agreed between the Operating Agent and the Participant with the approval of the Executive Committee.
- (f) *Use of Confidential Information.* If a Participant has access to confidential information which would be useful to the Operating Agent in conducting studies, assessments, analyses, or evaluations, such information may be communicated to the Operating Agent but shall not become part of reports, handbooks, or other documentation, nor be communicated to the other Participants except as may be agreed between the Operating Agent and the Participant which supplies such information.
- (g) *Acquisition of Information for the Task.* Each Participant shall inform the Operating Agent of the existence of information known to the Participant that can be of value to the Task, but which is not freely available, and the Participant shall endeavour to make the information available to the Task under reasonable conditions, in which event the Executive Committee may, acting unanimously, decide to acquire such information.
- (h) *Reports on Work Performed under the Task.* The Operating Agent shall provide reports on all work performed under the Task and the results thereof, including studies, assessments, analyses, evaluations and other documentation, but excluding proprietary information, to the Participants.
- (i) *Copyright.* The Operating Agent may take appropriate measures necessary to protect copyrightable materials generated under this Task. Copyrights obtained shall be the property of the Operating Agent for the benefit of the Participants, provided, however, that Participants may reproduce and distribute such material, but shall not publish it with a view to profit, except as otherwise directed by the Executive Committee.
- (j) *Authors.* Each Participant shall, without prejudice to any rights of authors under its national laws, take necessary steps to provide the co-operation with

its authors required to carry out the provisions of this paragraph. Each Participant will assume the responsibility to pay awards or compensation required to be paid to its employees according to the laws of its country.

8. *Results*

The results of this Task shall be:

- (a) Maintenance and improvement of an international capability for the analysis of new energy technologies and their future prospects; and
- (b) Periodic reports on workshops or seminar meetings and on analytical studies undertaken in connection with the Task.

9. *Participants*

The Contracting Parties which are Participants in this Annex are:

The Energieverwertungsagentur (Austria),

The Government of Belgium,

The Department of Energy, Mines and Resources (Canada),

The Ministry of Energy (Denmark),

The Kernforschungsanlage Jülich GmbH (Germany),

The National Board for Science and Technology (Ireland),

The Ente Nazionale Idrocarburi (Italy),

The Government of Japan,

The Stichting Energieonderzoek Centrum (Netherlands),

The Royal Ministry of Petroleum and Energy (Norway),

The Energy Research Commission (Sweden*),

The Office Fédéral de l'Energie (Switzerland),

The Secretary of State for Energy (United Kingdom),

The United States Department of Energy.

* See note p. 19.

Annex III

INTERNATIONAL FORUM ON ENERGY ENVIRONMENT STUDIES

1. *Background and Objectives*

- (a) *Background.* A co-operative energy systems analysis activity was begun in February, 1976 for the purpose of providing the analytical basis for an IEA Strategy for Energy Research, Development and Demonstration. This co-operative work resulted in the development of a computer model, known as MARKAL, and a set of national and group analytical results. Subsequent activities included refinement of the model, improvement of the data base, further national analytical studies and information exchange.

As a result of this work and other more specific national applications, a broad consensus has developed that environmental aspects of national energy systems are susceptible to analytical study. A major subject of concern is how various environmental constraints (e.g. SO₂ emissions, NO_x emissions) would affect the pattern of fuel and technology use and the choice and timing of implementation of abatement technologies.

There are many national studies on the relationship between energy use and the environment, but they all raise unanswered questions regarding how energy-environment options and basic scenarios and technical assumptions are interrelated.

A workable mechanism for comparing and evaluating national energy-environment analyses and rationalizing differences is needed by the international community to supplement the apparatus of national studies in order to gain insights to assist in the development of energy and energy technology policy. The methods, models and skills for such comparative studies already exist and should be applied to this analysis.

- (b) *Objectives.* The objectives of this Task are to provide for the continuation of a co-operative energy technology systems analysis activity and the establishment of such an activity within the context of energy and the environment:
- (1) To improve the technology characterizations by their updating and by the addition of data relating to emission release, emission control technologies and their costs;
 - (2) To ensure the ability of the methodology to analyze environmental issues related to energy use; and
 - (3) To promote the effective communication of the results of national and intercountry comparisons of the value of various options for emission control.

2. *Means*

The objectives shall be achieved by:

- (a) The development of technology characterizations, including environmental data, on a national level and the exchange of information regarding this work;
- (b) The exchange of work reports, memoranda and documents containing descriptions of methods, data inputs and results of energy systems studies;
- (c) The organization of workshops or seminar meetings, as necessary, to exchange information and experience in the areas of work covered by this Task;
- (d) The organization of annual meetings of an International Forum for Energy Environment Studies (FEEST) for the Task Participants, invited speakers and other interested persons, in order to deal with national, regional and/or inter-regional aspects of:
 - (i) Technology characterizations, with particular emphasis on environmental aspects;
 - (ii) Methodological treatment of environmental issues; and
 - (iii) Validation and communication of results of activities undertaken under this Annex;

The FEEST's meetings should be immediately followed by an Executive Committee meeting;

- (e) The carrying out of such other co-operative analytical activities as may be agreed in the annual Programme of Work.

3. *Specific Responsibilities of the Operating Agent*

- (a) *Project Staff.* For the purpose of carrying out the above objectives, the Operating Agent shall establish, within sixty days after the Annex has entered into force, a Project Staff composed of a half-time project head and such additional assistance as may be required to fulfil the Task. The total Project Staff shall amount to at least 1.25 staff years per annum.
- (b) *Co-ordination.* The Operating Agent shall be responsible for overall co-ordination of the Task. Specifically, the Operating Agent shall have primary responsibility for reviewing the technology characterizations relating to emissions, for making efforts to improve them and for making them comparable. The Operating Agent shall monitor and encourage the exchange of Reference Energy System (RES) substructures among the Participants in order to ensure that the best data sources and model

structures are generally known and widely implemented. In addition, the Operating Agent shall compile and review any other information and data provided under this Task.

- (c) *Meetings and Seminars.* Upon request of the Executive Committee, the Operating Agent shall organize workshops and seminars and assist the Executive Committee and the host country in organizing the annual FEEST.
- (d) *Preparation of Draft Programme of Work and Reports.* The Operating Agent shall prepare and submit to the Executive Committee, prior to its first meeting, a draft programme of work for the three-year period of the Task. The Operating Agent shall report to the Executive Committee at least once a year, on the progress of the activities under this Task. Upon termination of this Annex, the Operating Agent shall prepare and submit to the Executive Committee for approval a draft final report on the activities carried out during the period of this Annex. Following approval, the Operating Agent shall transmit the report to the Agency and to the members of the IEA Committee on Energy Research and Development.

The Committee on Energy Research and Development may, during this Task, propose additions to the Programme of Work. The Executive Committee shall, acting by unanimity, decide whether these proposals will be added to the Programme, provided such additional work can be carried out within the resource levels set out in paragraphs 3 (a) above and 5 (a) below.

4. *Specific Responsibilities of the Other Participants*

Participants shall carry out to the extent possible the following activities and communicate the results to the Operating Agent in the form of computer print-outs and country reports:

- (a) Collection of national data on emission release and emissions control technologies;
- (b) Collection of information on RES structure and related data;
- (c) Establishment of data on technology characterizations and related data;
- (d) Performance of scenario analysis using the best available structures of the RES;
- (e) Discussions of the data base, assumptions, methodology and results with the Members of the reference group installed in their respective countries.

5. *Funding*

- (a) *Common Financial Obligations.* Based upon a Project Staff as described in paragraph 3 above, the Operating Agent estimates the annual costs of the activities of the Operating Agent under this Task at 1986 prices at

\$US 150,000. The actual costs of the Operating Agent's activities under this Task will be divided equally among all Participants. If the number of Participants changes, the shares of contribution to the costs will be adjusted proportionally. New Participants will pay the full share of the costs beginning with the project year in which they become Participants.

- (b) *Individual Financial Obligations.* In addition to the contributions set out in sub-paragraph (a) above, each Participant shall bear all costs it incurs in carrying out this Task including the costs of participation in workshops, seminars and the annual FEEST.

6. *Time Schedule*

This Annex entered into force with effect from 1st October, 1986 and will remain in force for a period of three years. It may be extended by agreement of two or more Participants acting in the Executive Committee and taking into account any recommendation of the Agency's Committee on Energy Research and Development concerning the term of this Annex which shall thereafter apply only to those Participants.

7. *Operating Agent*

The United States Department of Energy, acting through the Brookhaven National Laboratory.

8. *Information and Intellectual Property*

- (a) *Executive Committee Powers.* The publication, distribution, handling, protection and ownership of information and intellectual property arising from this Annex shall be determined by the Executive Committee, acting by unanimity, in conformity with this Agreement.
- (b) *Right to Publish.* Subject only to copyright restrictions, the Participants in this Annex (referred to in this Annex as the "Participants") shall have the right to publish all information provided to or arising from this Annex except proprietary information, but they shall not publish it with a view to profit, except as agreed by the Executive Committee, acting by unanimity.
- (c) *Proprietary Information.* The Operating Agent and the Participants shall take all necessary measures in accordance with this Annex, the laws of their respective countries, and international law to protect proprietary information. For the purposes of this Annex proprietary information shall mean information of a confidential nature such as trade secrets and know-how (for example, computer programmes, design procedures and techniques, chemical composition of materials, or manufacturing methods, processes, or treatments) that is appropriately marked, provided such information:
 - (1) Is not generally known or publicly available from other sources;
 - (2) Has not previously been made available by the owner to others without obligation concerning its confidentiality; and

- (3) Is not already in the possession of the recipient Participant without obligation concerning its confidentiality.

It shall be the responsibility of each Participant supplying proprietary information to identify the information as such and to ensure that it is appropriately marked.

- (d) *Production of Relevant Information by Governments.* The Operating Agent should encourage the governments of all Agency Participating Countries to make available or to identify to the Operating Agent all published or otherwise freely available information known to them that is relevant to the Task. The Participants should notify the Operating Agent of all pre-existing information, and information developed independently of the Task known to them which is relevant to the Task and which can be made available to the Task without contractual or legal limitations.
- (e) *Production of Available Information by Participants.* Each Participant agrees to provide to the Operating Agent all previously existing information and information developed independently of the Annex which is needed by the Operating Agent to carry out its function in this Task and which is freely at the disposal of the Participant and the transmission of which is not subject to any contractual and/or legal limitations:
 - (1) If no substantial cost is incurred by the Participant in making such information available, at no charge to the Task;
 - (2) If substantial costs must be incurred by the Participant to make such information available, at such charge to the Task as shall be agreed between the Operating Agent and the Participant with the approval of the Executive Committee.
- (f) *Use of Proprietary Information.* If a Participant has access to proprietary information which would be useful to the Operating Agent in conducting studies, assessments, analyses, or evaluations, such information may be communicated to the Operating Agent in accordance with an agreement between the Operating Agent and the specific Participant setting forth the terms and conditions for such acceptance, but the proprietary information shall not become part of reports, handbooks, or other documentation, nor be communicated to the other Participants except as may be agreed in writing between the Operating Agent and the Participant which supplied such information.
- (g) *Acquisition of Information for the Task.* Each Participant shall inform the Operating Agent of the existence of information known to the Participant that can be of value to the Task, but which is not freely available, and the Participant shall endeavour to make the information available to the Task under reasonable conditions, in which event the Executive Committee may, acting unanimously, decide to acquire such information.

- (h) *Reports on Work Performed under the Task.* The Operating Agent shall provide reports on all work performed under the Task and the results thereof, including studies, assessments, analyses, evaluations and other documentation, but excluding proprietary information, to the Participants.
- (i) *Authors.* Each Participant shall, without prejudice to any rights of authors under its national laws, take necessary steps to provide the co-operation with its authors required to carry out the provisions of this paragraph. Each Participant will assume the responsibility to pay awards or compensation required to be paid to its employees according to the laws of its country.

9. Results

The results of this Task shall be:

- (a) Maintenance and improvement of an international capability for the analysis of energy technologies and their future prospects and establishment of such a capability within the context of energy and the environment;
- (b) Periodic reports on workshops or seminars and on analytical studies undertaken in connection with the Task; and
- (c) A final report on the activities carried out under this Task.

10. Participants

The Contracting Parties which are Participants in the Task are the following:

Environment Canada*,

The Commission of the European Communities,

The Kernforschungsanlage Jülich GmbH (Germany),

The Government of Japan,

The Stichting Energieonderzoek Centrum (Netherlands),

The Energy Research Commission (Sweden**),

The Office Fédéral de l'Energie (Switzerland),

The Secretary of State for Energy (United Kingdom),

The United States Department of Energy.

* See note p. 18.

** See note p. 19.

The Legal Counsel of the International Energy Agency hereby certifies that the present copy conforms to the original text deposited with the Executive Director of the International Energy Agency (as amended to the date hereof, by agreement of the Contracting Parties).

Paris,

THE LEGAL COUNSEL:

RICHARD F. SCOTT